Geologist



Tom Newman, CPG, RG Chief Geologist Holcim (US) Inc. 1405 Parkwood Drive Ft Collins, CO 80525-1934

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June 4, 2009

To:

Paul Baker
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
Minerals Regulatory Program
1594 W. Temple, Suite 1210
Box 145801
Salt Lake City, UT

84114-5801

Subject: Devil's Slide, Utah - Notice for Geotechnical Studies - M/046/001

Dear Mr Baker.

Please find attached four Drilling Forms for the Holcim (US) Inc. Devil's Slide, Utah Quarry.

All four holes were reclaimed per R647-2-018.

All four holes are on private property within the active quarry area.

All four holes will be consumed by quarry mining in the near future.

None of the four holes encountered ground water.

As always your efforts are most appreciated.

Sincerely,

Tom Newman, GPG, RG

Holcim Corporate Geologist

Cc:

Ken George: Devil's Slide Quarry Manager

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## **Drill Hole Abandonment Report for Bond Release**

<b>Drill Hole Numbe</b>	<u>T (</u> correspondin	g to permit map): <i>GT-3</i>						
<b>Drill Hole Location</b>	on (UTM's):U	tah State Plane, US Feet, NA	D83, NAVD88, Geiod 99 N3	,548,835 I	E1,628,404 Elv.5	,604		
Date of Abandonr	nent: 5-13-09							
Drill Hole Abando	onment Detail	S: (Please include a description of de	ill hole completion (depth of hole,etc.	), any problems e	encountered, amount of ca	sing rem	oved, type of abandonment	
completed, and any of	her pertinent innf	ormation)						
		to be consummed by mining.						
Started in bedrock								
	ntered compet	tent limestone and shale. No c	ollapase, 100% drill water ret	urn				
No casing.		A # # . # # # . # . # . # . # . # . # .						
Filled core hole fi	rom bottom of	hole to collar with cement an	id bentonite chips (Neat Ceme	nt)				
Depth (feet)		Abando	nment Material Details					
From	To	Abar	ndonment Material		Quantity		Grout Weight (lbs/gal, #bag	
					(e.g., cubic yards,#'s)		mix,gal/sack)	
0	350	Cement and B	entonite Clay Ch	ips	1.8		94 lbs per Ft3	
	4							
Complete this	nortion if	Water Encountered						
Drill Hole Number			Name of Farmetian	Dota of	4am Flass	Datie	and develop quality	
	-	Depth to water Strata	Name of Formation		water flow	Esun	nated water quality	
(Corresponding to permit map) (GPM)								
No water end	ounterea							
	1		:					
	ered Geologist in	the State of Utah or a Certified Profes	ssional Geologist with the AIPG or an	officer of the cor	mpany registered to do bu	siness in	the State of Utah must sign	
this form.	navtad informa	tion statements and/or documer	itation on this form are true and	comect to the l	act of my knowledge a	md holi	o <b>f</b>	
Name Tom Ne		uvi, suitemenis, unwvr documen	<u> </u>		• •	wa ven	y•	
		1/1		se No. 2250	J			
Signature	10m	Vermon	Date <b>6-4-0</b>	9				
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## Drill Hole Abandonment Report for Bond Release

		g to permit map): GT-2							
<b>Drill Hole Location</b>	on (UTM's):U	<u>tah State Plane, US Feet, N</u>	<u> 4D83, NAVD88, Geiod 99 N3</u>	3,550,078 I	E 1,628,235 Elv.	5,892			
Date of Abandonr	<u>nent</u> : <i>6-1-09</i>								
Drill Hole Abando	onment Detail	s: (Please include a description of d	rill hole completion (depth of hole,etc	), any problems e	encountered, amount of o	asing re	moved, type of abandonment		
completed, and any of									
		to be consummed by mining.							
Started in bedrock	k of competer	it limestone							
	ntered compe	tent limestone and shale. No	collapase, 100% drill water rei	urn					
No casing.									
Fuled core from t	oottom oj note	e to collar with cement and be	entonite chips (Neat Cement).						
Depth (feet)		Abande	onment Material Details						
From					Quantity		Grout Weight (lbs/gal, #bag		
	_				(e.g., cubic yards,#'	<u>s)</u>	mix.gal/sack)		
,									
0	874	Cement and E	Cement and Bentonite Clay Chips		4.4		94 lbs per Ft3		
							,		
		Water Encountered							
		Depth to water Strata			water flow Est		timated water quality		
(Corresponding to permit map)				(GPM)		┼			
No water end	countered								
	1	·	1						
A Professional Regist	ered Geologist in	the State of Utah or a Certified Profe	essional Geologist with the AIPG or an	officer of the cor	mpany registered to do b	usiness	n the State of Utah must sign		
this form.									
• • • • • • • • • • • • • • • • • • • •	•	tion, statements, and/or docume	ntation on this form are true and			and be	tie <del>j</del> .		
Name Tom No	ewman	. /	PRG Licer	ise No. 2250	U				
Signature	Iom /	enman	Date <b>6-4-6</b>	9					
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## **Drill Hole Abandonment Report for Bond Release**

		to permit map): <i>GT-1</i>							
		ah State Plane, US Feet, NA	D83, NAVD88, Geiod 99 N	3,548,764	E1,627,827 E	lv.5,568			
Date of Abandoni									
Drill Hole Aband	onment Details	! (Please include a description of de	rill hole completion (depth of hole,etc	.), any problems	encountered, amount	of casing re	moved, type of abandonment		
completed, and any of									
Started in bedrock	ie. Drui Moie i k of competent	o de consummea dy mining. Himastona			,				
			collapase, 100% drill water re						
No casing.	mercu compete	in the control with Situit. Two	onapase, 100% arm water re		<del> </del>				
	bottom of hole	to collar with cement and be	ntonite chips (Neat Cement).			. ,			
•	•		**************************************						
- 4 (0.)									
Depth (feet) Abandonment Material Details									
<u>From</u>	<u>To</u>	<u>Abar</u>	ndonment Material		<u>Ouantity</u>		Grout Weight (lbs/gal, #bag		
					(e.g., cubic yards,#'s) mix,gal/sack)		mix,gal/sack)		
	100								
0	400	Cement and B	entonite Clay Ch	nips	2.0		94 lbs per Ft3		
			· · · · · · · · · · · · · · · · · · ·						
Complete this	portion if V	Vater Encountered							
Drill Hole Number	- 11	Depth to water Strata	Name of Formation	Rate of	water flow	Esti	mated water quality		
(Corresponding to permit map)				(GPM)					
No water encountered									
	ered Geologist in tl	ne State of Utah or a Certified Profes	ssional Geologist with the AIPG or an	officer of the cor	mpany registered to d	lo business i	n the State of Utah must sign		
this form.									
		on, statements, and/or documen	tation on this form are true and		_	ige and bel	ief.		
Name Tom Newman  Signature  On Newman  PRG License No. 2250  Date 6-4-09									
Signature	on No	wnar	Date 6-4-6	9					
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## <u>Drill Hole Abandonment Report for Bond Release</u>

Drill Hole Number Drill Hole Location Date of Abandon	on (UTM's):Utai		<u>D83, NA</u> VD88, Geiod 99 N3	3,549,210	E1,628,286 Elv.5	,601		
completed, and any of HQ Size Core Ho	her pertinent innforn le. Drill Hole to	nation) be consummed by mining	ill hole completion (depth of hole,etc.					
Started in bedrock			W 1000/ 1 ·W					
No casing.	nterea competen	t timestone ana snate. No c	ollapase, 100% drill water ret	urn		·		
	rom bottom of h	ole to collar with cement an	d bentonite chips (Neat Ceme	ent).				
Depth (feet)	-	Abando	nment Material Details					
<u>From</u>	<u>To</u>	Abandonment Material			Ouantity (e.g., cubic yards,#'s)		Grout Weight (lbs/gal, #bag mix,gal/sack)	
0	550	Cement and Bentonite Clay Chips 2.8 94 lbs p					94 lbs per Ft3	
Complete this	portion if W	ater Encountered						
Drill Hole Number (Corresponding to permit map)		epth to water Strata	Name of Formation	Rate of (GPM)	water flow Est		timated water quality	
No water encountered								
A Professional Registered Geologist in the State of Utah or a Certified Professional Geologist with the AIPG or an officer of the company registered to do business in the State of Utah must sign this form.  I certify that the reported information, statements, and/or documentation on this form are true and correct to the best of my knowledge and belief.  Name Tom Newman  PRG License No. 2250  Signature  Date 6-4-09								
Signature/	on IVE	W/2/12	Date 6-4-0	y				
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